

**EXPRESS TERMS
FOR PROPOSED BUILDING STANDARDS
OF THE
STATE FIRE MARSHAL (SFM)
REGARDING THE ADOPTION BY REFERENCE OF THE
2003 EDITION, UNIFORM PLUMBING CODE
WITH PROPOSED AMENDMENTS FOR THE
CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5
2004 CALIFORNIA PLUMBING CODE (CPC)**

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 1- Administration
Adopt only those sections listed below

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
	101.1.1a		101.1.1		101.1.	X	SFM proposes to carry forward the existing amendment to new code
	101.2.2		101.2.2	101.2	101.2	X	SFM proposes to carry forward the existing amendment to new code
101.4	101.4.1	101.4	101.4.0	101.4	101.4.	X	SFM proposes to carry forward the existing amendment to new code
	101.4.1.4a		101.4.1.4..2		101.4.1.4.1	X	SFM proposes to carry forward the existing amendment to new code
	101.4.4		101.4.4		101.4.4	X	SFM proposes to carry forward the existing amendment to new code
	101.4.4.1		101.4.4.1		101.4.4.1	X	SFM proposes to carry forward the existing amendment to new code
	101.4.4.2		101.4.4.2		101.4.4.2	X	SFM proposes to carry forward the existing amendment to new code

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
	101.6		101.6		101.6	X	SFM proposes to carry forward the existing amendment to new code
	101.7		101.7		101.7	X	SFM proposes to carry forward the existing amendment to new code
	101.8		101.8		101.8	X	SFM proposes to carry forward the existing amendment to new code
	101.9		101.9		101.9	X	SFM proposes to carry forward the existing amendment to new code
	101.10		101.10		101.10	X	SFM proposes to carry forward the existing amendment to new code
	101.10.1		101.10.1		101.10.1	X	SFM proposes to carry forward the existing amendment to new code
	101.10.2		101.10.2		101.10.2	X	SFM proposes to carry forward the existing amendment to new code
	101.11.		101.11.		101.11	X	SFM proposes to carry forward the existing amendment to new code
	101.11.1		101.11.13		101.11.13	X	SFM proposes to carry forward the existing amendment to new code
	101.14		101.14		101.14	X	SFM proposes to carry forward the existing amendment to new code
102.2.1.1		102.2.1.1	102.2.1.1		102.2.1.1	X	SFM proposes to carry forward the existing amendment to new code
102.2.2.1		102.2.2.1	102.2.2.1		102.2.2.1	X	SFM proposes to carry forward the existing amendment to new code
			103.3.2.2		103.3.2.1	X	SFM proposes to carry forward the existing amendment to new code
103.4.6	103.4.6	103.4.6	103.4.6		103.4.6	X	SFM proposes to carry forward the existing amendment to new code
103.4.7			103.4.7		103.4.7	X	SFM proposes to carry forward the existing amendment to new code
	103.9		103.9		103.9	X	SFM proposes to carry forward the existing amendment to new code
	103.9.1		103.9.1		103.9.1	X	SFM proposes to carry forward the existing amendment to new code

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
	103.9.2		103.9.2		103.9.2	X	SFM proposes to carry forward the existing amendment to new code
	103.9.3		103.9.3		103.9.3	X	SFM proposes to carry forward the existing amendment to new code
	103.9.4		103.9.4		103.9.4	X	SFM proposes to carry forward the existing amendment to new code
	103.9.5		103.9.5		103.9.5	X	SFM proposes to carry forward the existing amendment to new code

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 2 Definitions
Adopt those sections listed below

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
223.0	223.0	223.0	223.0	223.0	223.0	X	
			U.P.C.		U.P.C.	X	SFM proposes to carry forward existing adopted UMC language as amendment to new code

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 3 General Regulations
Adopt entire Chapter 3 with amendments

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
	311.11		311.11		311.11	X	SFM proposes to carry forward the existing amendment to new code

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 4 Plumbing Fixtures and Fixture Fittings
Chapter 4 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
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California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 5 Water Heaters

Adopt entire Chapter 5 with amendments

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
				505.1		†	SFM does not adopt this section
					505.1.1	X	SFM proposes to adopt this section as amended by HCD 1 & HCD 2.
					508.2.1	X	SFM proposes to adopt this section as amended by HCD 1 & HCD 2.
					508.5.1	X	SFM proposes to adopt this section as amended by HCD 1 & HCD 2.

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 6 Water Supply and Distribution

Adopt only those sections listed below

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
				608.5		X	SFM proposes to adopt this section necessary to update the fire and life safety provisions and protect the health, safety and general welfare of private persons and the general public.

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 7 Sanitary Drainage
Chapter 7 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
						†	

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 8 Indirect Wastes
Chapter 8 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
						†	

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 9 Vents
Chapter 9 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
						†	

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 10 Traps and Interceptors
Chapter 10 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments

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California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 11 Storm Drainage
Chapter 11 is not adopted

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
						†	

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 12 Fuel Piping
Adopt entire Chapter 12 with amendments

1997 UPC	1998 CA Amendment #	2001 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments

				1211.12.5	1211.12.5	X	SFM proposes to amend this section for clarity.
				1211.15	1211.15	X	SFM proposes to amend this section for clarity.

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 13 Health Care Facilities and Medical Gas and Vacuum Systems
Adopt entire Chapter 13 with amendments

1997 UPC	1998 CA Amendment #	2001 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
			1301.0	1301.2	1301.2	X	SFM proposes to carry forward the existing amendment to new code;

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 14 Mandatory Referenced Standards
Adopt entire Chapter 14 with amendments

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
	NFPA 13-1996 Edition		NFPA 13-1999 Edition		NFPA 13 – 1999 Edition	X	SFM proposes to carry forward the existing amendment to new code

	NFPA 13R-1996 Edition		NFPA 13R-1999 Edition		NFPA 13R-2002 Edition	X	SFM proposes to carry forward the existing amendment to the new code with modification to update reference to latest standards
			NFPA 14, 2000		NFPA 14 2002 Edition	X	SFM proposes to carry forward the existing amendment to the new code with modification to update reference to latest standards
			NFPA 54 1996		NFPA 54 2002 Edition	X	SFM proposes to carry forward the existing amendment to the new code with modification to update reference to latest standards
			NFPA 58 1998	NFPA 58 2001 Edition		X	SFM proposed to repeal existing amendment and adopt model language
			NFPA 99-1999 Edition		NFPA 99-2002 Edition	X	SFM proposes to carry forward the existing amendment to the new code with modification to update reference to latest standards
			NFPA 99C-1999 Edition		NFPA 99C – 2002 Edition	X	SFM proposes to carry forward the existing amendment to the new code with modification to update reference to latest standards

California State Fire Marshal
UPC 2003 Adoption Matrix / Chapter 15 Firestop Protection
Adopt entire Chapter 15 with amendments

1997 UPC	1998 CA Amendment #	2000 UPC	2001 CA Amendment #	2003 UPC	2003 Proposed/ Amendment #	SFM Local Fire	Comments
			1501.1		1501.1	X	SFM proposes to amend this section for clarity.
			1503.1		1503.1	X	SFM proposes to amend this section for clarity.
			1505.6.4			X	SFM proposes to repeal existing amendment
			1505.6.5			X	SFM proposes to repeal existing amendment
					1507.1	X	SFM proposes to amend this section for clarity.
			1507.2	1507.2		†	SFM does not adopt this section
			1507.3	1507.3		†	SFM does not adopt this section
			1507.4	1507.4		†	SFM does not adopt this section

Legend for Express Terms:

- Existing California amendments or code language being modified: *All such language appears in Italics, modified language is underlined.*
 - New California amendment: All such language appears underlined and in Italics.
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3. Repealed Text: All such language appears in ~~Strikeout~~.

CHAPTER 5

505.1 Location **[For SFM Not adopted]** Water heater installations in bedrooms and bathrooms shall be of the direct-vent type. [NFPA 54:9.28.1.1]

505.1.1 [For SFM] *Water heaters which depend on the combustion of fuel for heat shall not be installed in a room used or designed to be used for sleeping purposes, bathroom, clothes closets or in a closet or other confined space opening into a bath or bedroom.*

Exception: Direct vent water heaters.

Where not prohibited by other regulations, water heaters may be located under a stairway or landing.

508.2.1 [For SFM] *Protection from Seismic Damage. Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one third (1/3) and lower one-third (1/3) of its vertical dimensions. At the lower point, a minimum distance of four (4) inches (102 mm) shall be maintained above the controls with the strapping.*

Note: The applicable subsection of Health and Safety Code Section 19211(a) which addresses new, replacement, and existing water heaters is repeated here for clarity and reads as follows:

Section 19211(a) Notwithstanding Section 19100, all new and replacement water heaters, and all existing residential water heaters shall be braced, anchored, or strapped to resist falling or horizontal displacement due to earthquake motion. At a minimum, any water heater shall be secured in accordance with the California Plumbing Code, or modifications made thereto by a city county, or city and county pursuant to Section 17958.5.

508.5.1 [For SFM] *Relief valves located inside a building shall be provided with a drain, not smaller than the relief valve outlet, of galvanized steel, hard-drawn copper piping and fittings, CPVC, or listed relief valve drain tube with fittings which will not reduce the internal bore of the pipe or tubing (straight lengths as opposed to coils) and shall extend from the valve to the outside of the building with the end of the pipe not more than two (2) feet (610 mm) nor less than six (6) inches (152 mm) above the ground or the flood level of the area receiving the discharge and pointing downward. Such drains may terminate at other approved locations. No part of such drain pipe shall be trapped or subject to freezing. The terminal end of the Drain pipe shall not be threaded.*

CHAPTER 12

1211.12.5 Installation of Gas-Mixing Machines.

(A) The machine shall be located in a large, well-ventilated area or in a small detached building or cutoff room provided with room construction and explosion vents in

accordance with sound engineering principles. Such rooms or belowgrade installations shall have adequate positive ventilation.

(B) Where gas-mixing machines are installed in well-ventilated areas, the type of electrical equipment shall be in accordance with NFPA 70, *National Electrical Code*® **[For SFM] California Electrical Code**, for general service conditions unless other hazards in the area prevail. Where gas-mixing machines are installed in small detached buildings or cutoff rooms, the electrical equipment and wiring shall be installed in accordance with NFPA 70, *National Electrical Code*, **[For SFM] California Electrical Code** for hazardous locations (Articles 500 and 501, Class I, Division 2).

(C) Air intakes for gas-mixing machines using compressors or blowers shall be taken from outdoors whenever practical.

(D) Controls for gas-mixing machines shall include interlocks and a safety shutoff valve of the manual reset type in the gas supply connection to each machine arranged to automatically shut off the gas supply in the event of high or low gas pressure. Except for open burner installations only, the controls shall be interlocked so that the blower or compressor will stop operating following a gas supply failure. Where a system employs pressurized air, means shall be provided to shut off the gas supply in the event of air failure.

(E) Centrifugal gas-mixing machines in parallel shall be reviewed by the user and equipment manufacturer before installation, and means or plans for minimizing these effects of downstream pulsation and equipment overload shall be prepared and utilized as needed.

1211.15 Electrical Connections. (A) All electrical connections between wiring and electrically operated control devices in a piping system shall conform to the requirements of NFPA 70, *National Electrical* **[For SFM] California Electrical Code**.

[SFM has previously submitted proposed rulemaking to the California Building Standards under the 2003 annual code cycle. The SFM has proposed amendments to the 2001 California Building and Fire Codes addressing updates to the National recognized standards as adopted and amended in chapter 35 of CBC and article 91 of CFC. The proposed amendments listed below in chapter 14 are correlated with the proposed amendments to the CBC and CFC.]

Chapter 14

Mandatory Referenced Standards Table 14-1

NFPA 13R- ~~1999~~ 2002 Edition, Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height Piping **[For SFM]**

NFPA 13D- ~~1999~~ 2002 Edition, Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes Piping **[For SFM]**

NFPA 14, ~~2000~~ - 2003 Edition, Installation of Standpipe, Private Hydrant and Hose Systems Piping **[For SFM]**

NFPA 54-~~96~~ - 2002 Edition, National Fuel Gas Code Fuel Gas **[For SFM]**

NFPA 58-~~98~~ - 2001 Edition, Storage and Handling of Liquefied Petroleum Gases Fuel Gas **[For SFM]**

NFPA 99-~~93~~ - 2002 Edition, ~~Medical Gas Systems Piping Health Care Facilities~~ **[For SFM]** ~~NFPA 99-99~~

NFPA 99C-~~93~~ - 2002 Edition, Gas and Vacuum Systems Piping **[For SFM]** ~~NFPA 99C-99~~

CHAPTER 15

1501.1 Applicability. All piping penetrations of required fire-resistance-rated walls, partitions, floors, floor/ceiling assemblies, roof/ceiling assemblies, or shaft enclosures shall be protected in accordance with the requirements of NFPA 5000, NFPA [For SFM] California Building Code.

1503.1 Firestop materials shall be installed in accordance with this chapter, the [For SFM] California Building Code, and the manufacturer's instructions.

~~1506.4 [For SFM] The penetration must meet any additional requirements for protection of the penetration in the building code adopted by the Administrative Authority.~~

~~1506.5 [For SFM] Prior to being concealed, piping penetrations shall be inspected to verify compliance with the fire resistance rating prescribed in the building code.~~

1507.1 General. Prior to being concealed, piping penetrations shall be inspected by the Authority Having Jurisdiction to verify compliance with the fire resistance rating prescribed in the Building Code, NFPA 5000, NFPA [For SFM] California Building Code.